

# Surfbee | Autonomous Surface Vehicles

Delivering high-resolution water quantity and quality data using industry-leading sensors



## Surfbee

## Flow Seeker and Flow Scout

Modular, high-performance autonomous surface vehicles designed for water quantity and quality monitoring. Built with a rugged inflatable hull, they feature dual GNSS with heading for reliable navigation, precision thrusters for consistent transects, and onboard batteries that can power connected sensors.

Surfbee also includes a high-definition camera with live video feedback to support field operations. Missions can be executed autonomously or manually using the Surfbee app and long-range controller with Bluetooth and 4G connectivity.



### **Benefits**



**Autonomous missions** are easily executed via the Surfbee app. Tap to set waypoints, adjust speed, and run missions, or return home



**Sensor-agnostic platform** supports ADCPs like the SonTek-RS5 and M9, and water quality instruments like the YSI EXO Sonde



**Built-in dual GNSS** with heading ensures precise positioning and accurate georeferenced data



**Lightweight yet powerful**, the inflatable hull is easy to transport and built for fast-moving and challenging water conditions



**Reliable system design** includes steering redundancy, power-efficient motors, and a longrange, weather-resistant transmitter



**Safer deployment** reduces time on boats or wading through water while replacing days of manual work with a single mission



# Surfbee model options

Surfbee offers two models: the **Flow Seeker**, a versatile and portable workhorse for a wide range of gauging conditions, and the **Flow Scout**, built for shallow waters with angled thrusters that enable precise lateral movement in challenging environments.

#### Both models include:

- · Flow board
- Power pod
- · Dual GNSS with heading
- Propeller system
- Remote control with touch screen
- 1 km range with Bluetooth and 4G connectivity
- Surfbee app
- · Integrated HD camera with live video
- RTK base
- · Instrument mount
- Gear bag

#### Flow Seeker



#### **Specifications**

Max speed	4 m/s (3 m/s cruise)
Minimal depth	0.25 m
Weight (without batteries)	13.5 kg
Sensor integration	Multiple payloads up to 10 kg
Dimensions	L: 1.65 m W: 0.75 m H: 0.10 m
Underwater thrusters	3
Compatibility	SonTek-RS5, SonTek-M9, YSI EXO Sonde, and third party sensors

#### Flow Scout



#### **Specifications**

Max speed	1.8 m/s (forward) 0.8 m/s (lateral)
Minimal depth	0.14 m
Weight (without batteries)	11 kg
Sensor integration	Multiple payloads up to 8 kg
Dimensions	L: 1.35 m W: 0.70 m H: 0.10 m
Underwater thrusters	3
Compatibility	SonTek-RS5, SonTek-M9, YSI EXO Sonde, and third party sensors
Lateral movement	Yes

## Flow Sled

The Flow Sled is a rugged, floating module designed to bolster stability and performance in demanding flow environments. This accessory provides all the benefits of a larger vessel without sacrificing portability or storage convenience.

The Flow Sled is only compatible with the Flow Seeker.



# Your complete solution for water surveying

The Surfbee Flow Seeker and Flow Scout are versatile, portable surface vehicles designed to tackle a wide range of hydrographic and environmental monitoring applications. Whether you need high-precision mapping and real-time data. Surfbee delivers reliable performance across diverse aquatic environments.



Improved Transects — Precise navigation and positional accuracy, along with intuitive station setup, yield reliable transect repeatability



**Return Home** — Quickly return to the start position at any time during a mission or if the battery is low



Waypoint Planning — Create a boundary by driving the boat around or drawing on the map, then adjust the angle and density of your plan



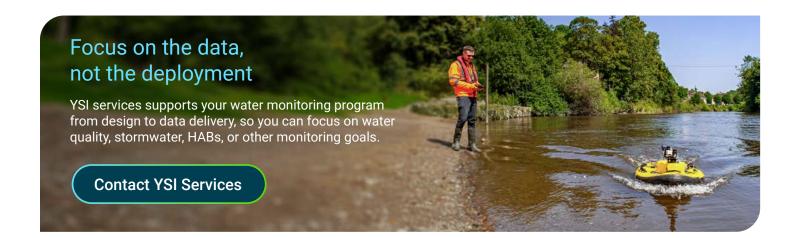
**Position Hold** — Thrusters make constant adjustments to remain in a precise location without drifting in the current



Remote Control — Intuitive driving controls, exceptional maneuverability, and fast speeds make it easy to navigate a range of environments



Real-Time Course Correction — Adapt to changing flow conditions, ensuring consistency and data quality





Manufacturing Partner



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